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spinning, at a circumferential velocity ratio between the front and rear rollers (circumferential velocity of a rear roller / circumferential velocity of a front roller) of 0.5 to 1.2 under heating conditions which satisfy $4 \le y \le -1.5x + 330$ and $(Tgc - 5)^{\circ}C \le x \le (Tgc + 110)^{\circ}C$ wherein Tgc represents a glass transition temperature of a core, x represents an annealing temperature (°C), and y: an annealing time (seconds).

(J)

21. (Amended) A production method of a plastic optical fiber, comprising the step of annealing a plastic optical fiber obtained by heat-drawing an undrawn fiber obtained by melt spinning, at a circumferential velocity ratio between (circumferential velocity of a rear roller / circumferential velocity of a front roller) between the front and rear rollers of 0.5 to 1.2 under heat conditions which satisfy $4 \le y \le -1.5x + 330$ and $(Tgc - 5)^{\circ}C \le x \le (Tgc + 110)^{\circ}C$, wherein Tgc represents a glass transition temperature of a core, x represents an annealing temperature (°C), and y represents an annealing time (seconds), while a tension of 0.35 x 10⁶ to 1.5 x 10⁶ Pa is applied to the fiber.

See the Appendix for amendments.